

P21030.A01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yoshio HARADA et al.

Serial No : Not Yet Assigned (National Stage of PCT/JP00/08584)

Filed : Concurrently Herewith (International Filing Date December 4, 2000)

For : INTERNAL MEMBER FOR PLASMA-TREATING VESSEL
AND METHOD OF PRODUCING THE SAME

PRELIMINARY AMENDMENT

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Prior to calculation of the filing fees and the examination of the above-identified patent application on the merits, the Examiner is respectfully requested to amend the claims as follows:

IN THE CLAIMS

Please amend claims 4, 5, and 7 as follows (a marked-up copy of the claim amendments is provided as an attachment to this Amendment):

4. (Amended-Clean Text) An internal member for a plasma treating vessel according to claim 1, wherein the metal coating as the undercoat is a coating of one or more metals or alloys selected from Ni and an alloy thereof, W and an alloy thereof, Mo and an alloy thereof and Ti and an alloy thereof and having a thickness of 50-500 μm .

5. (Amended-Clean Text) An internal member for a plasma treating vessel according to claim 1, wherein the middle layer is a layer of Al_2O_3 or a mixture of Al_2O_3 and Y_2O_3 .

7. (Amended-Clean Text) An internal member for a plasma treating vessel according to claim 1, wherein the Y_2O_3 sprayed coating is a coating having a porosity of 0.5-10% and a thickness of 50-2000 μm .

Please add new claims 11-18 as follows:

---11. An internal member for a plasma treating vessel according to claim 2, wherein the metal coating as the undercoat is a coating of one or more metals or alloys selected from Ni and an alloy thereof, W and an alloy thereof, Mo and an alloy thereof and Ti and an alloy thereof and having a thickness of 50-500 μm .

12. An internal member for a plasma treating vessel according to claim 3, wherein the metal coating as the undercoat is a coating of one or more metals or alloys selected from Ni and an alloy thereof, W and an alloy thereof, Mo and an alloy thereof and Ti and an alloy thereof and having a thickness of 50-500 μm .

13. An internal member for a plasma treating vessel according to claim 2, wherein the middle layer is a layer of Al_2O_3 or a mixture of Al_2O_3 and Y_2O_3 .

14. An internal member for a plasma treating vessel according to claim 3, wherein the middle layer is a layer of Al_2O_3 or a mixture of Al_2O_3 and Y_2O_3 .

15. An internal member for a plasma treating vessel according to claim 13, wherein the middle layer is formed by a layer having a gradient concentration such that a concentration of Al_2O_3 is high at a side of the undercoat and a concentration of Y_2O_3 is high at a side of the top coat.

16. An internal member for a plasma treating vessel according to claim 14, wherein the middle layer is formed by a layer having a gradient concentration such that a concentration of Al_2O_3 is high at a side of the undercoat and a concentration of Y_2O_3 is high at a side of the top coat.

17. An internal member for a plasma treating vessel according to claim 2, wherein the Y_2O_3 sprayed coating is a coating having a porosity of 0.5-10% and a thickness of 50-2000 μm .

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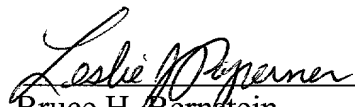
18. An internal member for a plasma treating vessel according to claim 3, wherein the Y_2O_3 sprayed coating is a coating having a porosity of 0.5-10% and a thickness of 50-2000 μm .---

REMARKS

By the above amendment, claims 4, 5, and 7 have been amended and claims 11-18 have been added to delete multiple dependency.

If there should be any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,
Yoshio HARADA et al.


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MARKED-UP COPY OF AMENDED CLAIMS

4. (Amended) An internal member for a plasma treating vessel according to claim 1, [2, or 3,] wherein the metal coating as the undercoat is a coating of one or more metals or alloys selected from Ni and an alloy thereof, W and an alloy thereof, Mo and an alloy thereof and Ti and an alloy thereof and having a thickness of 50-500 μm .

5. (Amended) An internal member for a plasma treating vessel according to claim 1, [2, or 3,] wherein the middle layer is a layer of Al_2O_3 or a mixture of Al_2O_3 and Y_2O_3 .

7. (Amended) An internal member for a plasma treating vessel according to claim 1, [2, or 3,] wherein the Y_2O_3 sprayed coating is a coating having a porosity of 0.5-10% and a thickness of 50-2000 μm .